

02171645 REDIVERSION CANAL AT SANTÉE RIVER NEAR ST. STEPHENS, SC

LOCATION.--Lat 33°25'26'', long 79°51'40'', Berkeley County, Hydrologic Unit 03050112, on right bank, 3.2 mi downstream from St. Stephens Powerhouse, 0.8 mi upstream from Santee River, and 3.0 mi west of St. Stephens.

DRAINAGE AREA.--Indeterminate.

PERIOD OF RECORD.--October 1986 to current year.

GAGE.--Data collection platform and acoustic velocity meter. Datum of gage is sea level.

REMARKS.--An Acoustic Velocity Meter (AVM) was installed in March 2001 in order to improve the accuracy of the discharge computations. The AVM has not yet been calibrated because of limited releases by the St. Stephen Powerhouse due to the ongoing drought. Discharge records for the 1987-2000 water years were computed by utilization of the One-Dimensional unsteady flow simulation model (BRANCH) and are rated poor. Two auxiliary stations (sta. 02171560 and 02171700) were used with this station for computation of discharge. Flow is regulated by the St. Stephens Powerhouse and affected by tide during low-flow periods. Water is diverted above station from Lake Moultrie for generation of power and for navigation, then discharged into the West Branch Cooper River (see station 02172002). During periods of incomplete gage-height record, values of daily mean discharge from St. Stephens Powerhouse were obtained and used to estimate daily discharges. These values are shown as estimated daily discharges.

DISCHARGE DATA FOR THE 2001 WATER YEAR WILL BE INCLUDED IN THE 2002 WATER YEAR REPORT